

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/943,578

In re the Application of

Masakazu FUNAHASHI et al.

Filed: August 31, 2001

MAIL STOP ISSUE FEE
Notice of Allowance:
Mailed: 11/24/04
Confirmation No.: 9438
Group Art Unit: 1774

Examiner: Camie S. Thompson

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

REQUEST FOR ACKNOWLEDGMENT OF RECEIPT AND CONSIDERATION OF INFORMATION DISCLOSURE STATEMENT

MAIL STOP ISSUE FEE Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Applicants respectfully request the U.S. Patent and Trademark Office to return an initialed copy of the PTO-1449 filed October 19, 2004 with an Amendment Under 37 CFR 1.116, IDS, Petition Under 37 CFR 1.97(d) (ii), \$180 and Certification Under 37 CFR 1.97(e) acknowledgment of receipt and consideration thereof. A courtesy copy of that PTO-1449, IDS and references filed therewith, as well as a copy of applicants' representatives' postcard receipt evidencing receipt of these documents by the PTO, are enclosed.

Should there be any questions regarding this matter, the appropriate Patent and Trademark Office official is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,

Charles A. Wendel

Registration No. 24,453

PARKHURST & WENDEL, L.L.P.

CAW/ch
Attorney Docket No. OHTN:004
PARKHURST & WENDEL, L.L.P.
1421 Prince Street, Suite 210
Alexandria, Virginia 22314-2805

Telephone: (703) 739-0220

(rev. 7/96)



Atty, Docke Description	OHTN:004	
	FEE & \$880; IDS, 1449, ONE REF (W/ABSTRACT);	
	PETITION UNDER 37 CFTR 1.97(d)(ii) \$180;	
	CERTIFICATION UNDER 37 CFR 1.97(e) (# 18083)	)
Inventor(s): Title (new c	Masakazu FUNAHASHI et al.	
	ANOVEL STYRYL COMPOUND AND ORGANIC	<b>(3)</b>
	ELECTROLUMINESCENCE DEVICE	7
Attorney:	CAW/ch Serial No.09/943,578	<b>&gt;</b>
拉拉加工	e <b>©ctober 19, 2004</b>	
Date(s) Sati	isingly comber 3, 2004 (NOA still due)	
	c/u: 11-1 Call Exr	
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#### PATENT

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Serial No.: 09/943,578

Confirmation No.: 9438

In re Application of

Group Art Unit: 1774

Masakazu FUNAHASHI et al.

Examiner: Camie S. Thompson

Filed: August 31, 2001

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

# PETITION UNDER 37 C.F.R. §1.97(d) (ii)

Commissioner of Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

#### Sir:

Applicant(s) hereby respectfully request consideration and entry of the Information Disclosure Statement filed contemporaneously herewith. The reference cited in the Information Disclosure Statement was found by one the inventors of the instant application on August 23, 2004. The certification under Rule 97(e)(1) is filed herewith, as well as a check in the amount of \$180.00, pursuant to Rule 17(i)(1).

Consideration and entry of the attached Information Disclosure Statement is respectfully requested.

Respectfully submitted,

PARKHURST & WENDEL

Charles A. Wendel

Registration No. 24,453

ATTORNEY DOCKET NO. OHTN:004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Masakazu FUNAHASHI et al.

Serial No.: 09/943,578 Filed: August 31, 2001

Examiner: Camie S. Thompson

Group Art Unit:

PATENT

1774

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

## CERTIFICATION UNDER 37 C.F.R. § 1.97(e)

Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22314-2805

Sir:

[X] Each item of information contained in the Information Disclosure Statement filed herewith was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

OR

[] No item of information in the Information Disclosure Statement filed, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Attorney Docket No.: OHTN:004

Attachment:

Information Disclosure Statement PARKHURST & WENDEL, L.L.P. 1421 Prince Street, Suite 210 Alexandria, Virginia 22314-2805

Telephone: (703) 739-0220

Respectfully submitted,

ARKHURST, & WENDEL, \L.L.

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Charles A. Wendel

Registration No. 24,453



PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/943,578 Confirmation No.: 9438

In re Application of:

Masakazu FUNAHASHI et al. Group Art Unit: 1774

Filed: August 31, 2001 Examiner: Camie S. Thompson

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. A copy of the reference listed on Form PTO-1449 is attached.

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. See 37 C.F.R. 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that these references be made of record therein

and appear among the "References Cited" on any patent to issue therefrom.

Respectfully submitted,

PARKHURST & WENDEL, L.L.P.

Date

CAW/ch

Attorney Docket No.: OHTN:004

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(rev. 4/96)

Charles A. Wendel

Registration No. 24,453

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Sheet 1 of 1-	•		7				જ			
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PATENT LIST OF REFER	AND TRADEMARK OF RENCES CITED BY APP	FFICE PPLICANT(S)	APPLICANT Masakazu FUNAHASHI et al.			MADEMARKO				
(Use several sheets if necessary)			FILING DATE August 31, 2001				GROUP 1774			
	U.S. PATENT DOCUMENTS									
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(11)Publication number:

07-249490

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(51)Int.CI.

H05B 33/14

C07C229/44 C09K 11/06

(21)Application number: 06-064508

(71)Applicant: RICOH CO LTD

(22)Date of filing:

08.03.1994

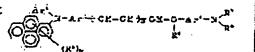
(72)Inventor: TAMOTO NOZOMI

TANAKA CHIAKI NAGAI KAZUKIYO ADACHI CHIHAYA SAKON HIROTA

## (54) ELECTROLUMINESCENCE(EL) ELEMENT

### (57)Abstract:

PURPOSE: To provide an EL element excellent in durability, whose performance in light emission can last for a long period of time, by using a specific olefin compound as the constituent material for an organic compound layer. CONSTITUTION: An olefin compound having a pyrenyl radical expressed by the equation given in attached illustration is used as the constituent material for a single-ply organic compound layer pinched by an anode and a cathode or at least one of multi-ply organic compound layers; in the equation R1 is a hydrogen atom, low-grade alkyl radical, or alcoxy radical, R2 is hydrogen atom, cyano radical, alcoxy carbonyl radical, or an alkyl radical or phenyl radical either substitutional or non-substitutional, R3, R4, Ar1 are alkyl radical or a carbon ring aromatic radical either substitutional or non-substitutional, and Ar2, Ar3 are two-valent aromatic radical of carbon ring



either substitutional or non-substitutional, and further (m) represents integer 1-3 while (n) represents integer 0 or 1. According to this constitution, crystallization of the organic compound is controlled, and an EL element presenting a high light emissive brightness and high durability can be obtained.

### **LEGAL STATUS**

[Date of request for examination]
[Date of sending the examiner's decision of

rejection]

# (12) 公開特許公報(A)

(11)特許出與公開番号

# 特開平7-249490

(43)公期日 平成7年(1995) 9月26日

(51) Int.CL.

識別配升

FI

技術表示箇所

H05B 33/14 C07C 229/44

C09K 11/06

Z 9280-4H

广内整型番号

審査副求 未触求 耐求項の数3 FD (全 20 円)

(21)出剧番号	特里平8-64508	(71)出與人 000006747
		株式会社リコー
(22) 山瀬日	平成6年(1994)3月8日	東京都大口区中馬込1丁目3番6号
		(72) 発明者 田元 盆
·		東京都大田区中周込1丁目3番6号 株式
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		(74)代理人 弁理士 池浦 畝明 (外1名)
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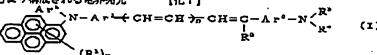
#### (54) 【発明の名称】 電界発光索子

#### (57)【契約】

【日的】 案子の発光性能が長時間にわたって持続する 耐久性に優れた電界発光素子を得ること。

【情成】 関極および陰極とこれらの間に狭物された単 層または複数層の有機化合物層より構成される電界発光 米子において、前記単層有機化合物層または複数層の有機化合物層のうちの少なくとも一層が下記一般式(I)で表されるピレニル基を有するオレフィン化合物を構成成分とする電界光光素子。





(R<sup>1</sup>、は水来原子、低級アルキル基またはアルコキシ 基を表わす。R<sup>2</sup>は水米原子、シアノ基、アルコキシカ ルポニル基、世換もしくは無屋換のアルキル基、屋換も しくは無屋換のフェニル基を表わす。R<sup>3</sup>、R<sup>4</sup>、Ar<sup>1</sup> は屋換もしくは無屋換のアルキル基、置換もしくは無層 換の炭素限式方容族基を表わす。 $Ar^2$ 、 $Ar^3$  は原換もしくは無限換の炭素原式方香族の2 価基を表わす。 $R^3$ 、 $R^4$ 、 $Ar^1$ 、 $Ar^2$ 、 $Ar^3$ はそれぞれ同一でも異なっていてもよい。mは1~3、nは0または1 の整数を表わす。)